
Introduction to Meridian Companion

The Meridian Companion application integrates wireless telephone capability into a Meridian 1 system. Meridian Companion uses radio technology to transmit and receive signals between portable (wireless) telephones and Base Stations connected to a Meridian 1 system.

Preparing to install a Meridian Companion system

Before using this guide, read the *Meridian Companion Product Overview*.

The following must be completed before installing the Meridian Companion system:

- ☐ site planning (the process of determining the location and number of Base Stations required at a customer site)
- ☐ installation of the wiring required for the Base Stations
- ☐ installation of AC power for a plug-top power supply to power each Base Station or for a remote power interconnect (RPI) unit to power multiple Base Stations
- ☐ installation of primary protectors for Base Stations in applications with external exposed wiring and provisioning for placement of the secondary protectors, as needed
- ☐ for an ST/STE, RT, NT, or XT system, an upgrade so that the system has an IPE Module or a CE/PE Module

- ❑ preparation of the IPE Module or CE/PE Module to ensure the following:
 - sufficient contiguous slots available for Meridian Companion cards (Option 11 may require an expansion cabinet)
 - all power and Main Distribution Frame (MDF) cables in place
- ❑ preparation for activating wireless communications:
 - Record the Companion ID (found on the packing slip or on the labels packaged with the software cartridge) in the *Meridian Companion Programming and Provisioning Record*. You will need to provide this when you want to obtain codes.

Information derived during the site planning process is entered into the *Meridian Companion Programming and Provisioning Record*. Installation requires a copy of this document plus the annotated site floor plans that were used during site planning. Check this record to make sure that all equipment and supplies are available.

The *Meridian Companion Site Planning Reference Manual* describes these preinstallation steps.

Installing a Meridian Companion system

Installing a Meridian Companion system involves the following:

- installing, wiring, and powering hardware components:
 - Base Stations and any external antennas
 - plug-top power supplies, where required
 - RPI units, if used
 - Remote Access Device (RAD)
 - Administration Terminal, if used
- cross connecting Base Station TCM wires at the MDF and installing any secondary protectors needed for external exposed wiring
- connecting the RAD and set up line for remote access

- attaching the feature ROM card to the Companion Controller card (CMCC), and then installing the Companion expansion cards in an IPE or CE/PE Module
- programming the Meridian Companion system (using the Administration Terminal or Companion Manager), excluding user options
- entering any required Portable Credit Codes and the UTAM Activation Code into the Meridian Companion system
- preparing a radio cell assignment list for Base Stations based on what you observe during reevaluation
- verifying the mobility system and making corrections as necessary
- programming the Meridian 1 wireless terminal numbers (WTNs) and enabling the cards
- programming the user options in the Meridian Companion system
- registering and verifying individual user portables
- completing the *Meridian Companion Programming and Provisioning Record*

The *Companion Manager Installation and Operations Guide* describes the installation, operations, administration, and maintenance of Meridian Companion systems through Companion Manager, a Microsoft Windows® application that runs on the Administration PC. You can use Companion Manager instead of or in addition to the Administration Terminal.

The *Meridian Companion Administration Terminal Operations Guide* describes programming and managing the portable telephones.

Installation warnings

Read this section carefully to ensure your safety and the safe operation of the Meridian Companion system.

WARNING!

Do not connect the Administration Terminal, Base Stations, or RAD directly to a central office (CO) line interface. Doing so may result in equipment damage.

WARNING!

To avoid damage to equipment, do not insert the plug at the free end of an Administration Terminal cord directly into a wall or baseboard jack.



SHOCK!

Check the lightning surge arrestors at the cable entry point to the building and pay special attention to the grounding.

Report any problems to the telephone company in writing. Because Administration Terminals, Base Stations, and RADs are not lightning protected, do not install them outside the building.



SHOCK!

To avoid electrical shock hazard to personnel or equipment, observe the following precautions when installing telephone equipment:

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch noninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying the telephone lines.



CAUTION!

To eliminate the possibility of accidental damage to cords, plugs, jacks, and other system components, do not use sharp instruments during the assembly procedures.

WARNING!

When a Base Station is installed off-premises (lines between the Meridian 1 system and the Base Station run between separate buildings), protect the telephone wiring and Base Station at each end with secondary lightning surge arrestors: Oneac Corp. Model 6DP or ITW LINX Model MP1A-90-27.



CAUTION!

Base Stations can be used off-premises only with proper regulatory authority.

ATTENTION!

The Administration Terminal must not be used as off-premises equipment.

Safety precautions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, damage to equipment, and injury to persons, including the following:

WARNING!

Unplug the system from the AC outlet and refer servicing to qualified service personnel under the following conditions:

- when a power cord is damaged or frayed
- if the equipment has been exposed to rain, or liquid has been spilled on any part of it (if this happens, allow the equipment to dry out, unplugged, to see if it still operates; do not open up the equipment)
- if the housing of any part of the equipment has been damaged



SHOCK!

To avoid fire or electrical shock, do not overload AC outlets and extension cords.



SHOCK!

To reduce the risk of electric shock, do not disassemble the equipment. When any service or repair work is required, contact a qualified service person.



SHOCK!

Install an AC lightning surge arrestor in the AC outlet that connects to the equipment.

Electrical surges, typically lighting transients, are very destructive to terminal equipment connected to AC power sources.



CAUTION!

Unplug the equipment from the AC outlet before cleaning with a damp cloth. Do not use liquid or aerosol cleaners.



CAUTION!

Do not place any part of the equipment

- on an unstable cart, stand or table
- near or over a radiator or heat vent
- in an enclosure unless proper ventilation is provided



CAUTION!

Do not allow anything to rest on the power cord.

Do not locate the equipment where someone may walk on the power cord.



CAUTION!

Never push objects of any kind into the equipment slots.



CAUTION!

Do not use any part of the equipment near water.

Never spill liquids on the equipment.



CAUTION!

Do not use any telephone to report a gas leak in the vicinity of the suspected leak.



CAUTION!

Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect the equipment from overheating, do not block or cover these openings.



CAUTION!

The equipment is equipped with a three-wire grounding type plug with a third (grounding) pin. This plug fits into a grounding type AC outlet only. This is a safety feature. If you are unable to insert the plug into the AC outlet, contact your electrician to replace your obsolete AC outlet.

ATTENTION!

Follow the warnings and instructions marked on the Meridian Companion system.

System overview

Figure 1 shows an overview of the Meridian Companion configuration.

Figure 1: Meridian Companion overview

